Windward Community College Mission Statement

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai‘i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O‘ahu’s Ko‘olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

Catalog Description

Linear equation, inequalities, systems of equations, polynomial functions, fractional expressions and equations, exponents, powers, roots, quadratic equations and functions; rational, exponential and logarithmic functions.

*This course fulfills FS(Foundation Symbolic) Requirement for A.A. degree.

Activities Required Other Than Class Times

Doing homework; possibly taking quizzes at the testing center or meeting with instructor. **Attending SI sessions.** It is expected that students spend at least 12 hours per week other than class time to read the course materials, to study and do homework for this class.

Learning Resources and Materials

1. College Algebra, By Michael Sullivan;
2. Lecture Note, by Wei-Ling Landers
3. A three-ring binder to keep course materials.

Disabilities Accommodation Statement

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Professor Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Akoakoa 213 for more information.
Student Learning Outcomes

The student learning outcomes for the course are:

1. Demonstrate proficiency in writing math expressions into different forms.
2. Employ algebraic techniques to find the solutions to equations and/or inequalities, using complex numbers where appropriate.
3. Use algebraic techniques to analyze and solve applied problems.
4. Interpret equations geometrically and use geometrical information to obtain the equation of lines and circles.
5. Utilize introductory function concepts and draw the graphs of selected functions.
6. Utilize the definition of a logarithm and the properties of logarithms to simplify logarithmic expressions or to solve logarithmic and exponential equations.
7. Demonstrate proficiency in solving systems of linear and second degree equations and inequalities.
8. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.

Note: All SLO assessments are embedded in class activities, homework, quizzes or Exams.

Foundations Hallmarks:

1. Students will be exposed to the beauty, power, clarity and precision of formal systems.
2. Instructor will help students understand the concept of proof as a chain of inferences.
3. Instructor will teach students how to apply formal rules or algorithms.
4. Students will be required to use appropriate symbolic techniques in the context of problem solving, and in the presentation and critical evaluation of evidence.
5. The course will not focus solely on computational skills.
6. Instructor will build a bridge from theory to practice and show students how to traverse this bridge.
Assessment Tasks and Grading

The student will demonstrate competency in the objectives via assignments, in-class activities, quizzes, unit exams and a final exam over concepts and skills covered in the entire course.

1. Homework: You should finish each On-line assignment before each due date. Please follow the handout (last page) and use the access code coming with the textbook to set up your account at pearsonmylabandmastering.com as soon as you can. Homework is already waiting for you. The access code also provides an e-book, so if you prefer, you may just purchase the access code when you set up your account at Pearson.

2. In-class activities: Class activities are done in class only. Class activities will be graded on a 0 – 3 point scale. There is no make-up for a missed class activity. Students must be present in class to participate.

3. Special assignments: Each assignment will be collected and counted in course grade.

4. SI sessions: SI sessions will be arranged by the SI leader. The work of SI sessions will be counted as part of the course grade.

Tentatively the course grade will be evaluated as following, however, the instructor reserves the right to make a change if needed.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>On-line Homework</td>
<td>10%</td>
</tr>
<tr>
<td>in-class activities /SI sessions</td>
<td>10%</td>
</tr>
<tr>
<td>Special assignments</td>
<td>12%</td>
</tr>
<tr>
<td>4 Unit Exams (100 points for each exam)</td>
<td>48%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

Each letter grade for the course will be assigned according to the level of achievement as provided in the table below:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90% - 100% of the possible cumulative points</td>
</tr>
<tr>
<td>B</td>
<td>80% - 89% of the possible cumulative points</td>
</tr>
<tr>
<td>C</td>
<td>70% - 79% of the possible cumulative points</td>
</tr>
<tr>
<td>Cr</td>
<td>70% - 100% of the possible cumulative points</td>
</tr>
<tr>
<td>D</td>
<td>60% - 69% of the possible cumulative points</td>
</tr>
<tr>
<td>F</td>
<td>below 60% of the possible cumulative points</td>
</tr>
<tr>
<td>NC</td>
<td>Less than 70% of the possible cumulative points</td>
</tr>
<tr>
<td>W</td>
<td>Official Withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete - given when a student has failed to complete a small part of the course due to circumstances beyond his/her control.</td>
</tr>
</tbody>
</table>

Note: CR/NC or W grade require written instructor consent. Students must apply for the CR/NC grading option at the Admissions office by the official withdrawal deadline March 31, 2015. This grading option is not available to majors in required courses. If a student does not apply for the CR/NC grading option by the required deadline and if s/he does not withdraw, a letter grade (A, B, C, D, F) will be assigned for the course.

Note:
1. There is NO RETEST for this course.
2. FINAL EXAM: The final exam is cumulative (the entire course material).
3. CALCULATORS: Calculators are not allowed for tests. Calculator use is encouraged for homework problems where needed.
Responsibilities of Students
Success in this course will be enhanced by:
1. A positive, inquiring attitude toward mathematics;
2. Setting aside adequate time for studying, working on problems, and careful cogitation of the material;
3. Reading the text carefully and making use of other learning materials whenever necessary;
4. Seeking assistance from the instructor and the Math Lab whenever necessary;
5. Regularly attending class and, notifying the instructor of an absence and responsibly obtaining and completing assignments by the designated date.

Email and Laulima Website
You are responsible for checking your UH email or MML email regularly for important announcements. You are also expected to check the Math 103 course materials posted at the Laulima website. I will post answers of lecture notes to the Laulima site after each class. Also, I will post answers of special assignment to the Laulima site after grading. In case you cannot attend a class when an assignment is due, you can scan your work as a PDF file, then upload it to your folder in the drop-box at Laulima site, send an email to the instructor to check it. As long as your assignment is received by the due date, you will get credits for it.

Academic Honesty
All quizzes/exams are closed books and notes, must be done by your individual effort. You may not consult with any classmates while taking quizzes or exams. You are not allowed to tell a friend the type of questions on the quiz or exam, the answers, or help a classmate in any way (e.g. by explaining how to solve the problem). This would fall under the guidelines of academic integrity and any evidence of cheating will result in a score of zero for all parties involved. Also keep in mind that we are assessing your knowledge and understanding of the concepts and strategies – attempting to find the answers online or through other sources is not in the spirit of academic honesty. An “F” will be assigned to students involved in cheating and will be reported to the Dean.

Special assignments that apply to the course grade may be discussed with your classmates and you may seek guidance from the instructor, the Math Lab tutors, or the Trio tutors (if you are a Trio client), however, the write up of the solution for each problem must be done on your individual effort unless otherwise specified by the instructor. Any evidence of plagiarism will result in a score of zero for all parties involved. If plagiarism persists, then an “F” will be assigned to the students involved in plagiarism and will be reported to the Dean.

Disruptive Behavior
Disruptive Behavior leads to a loss of learning time. Examples are activated beepers and cell phones, texting messages, making offensive remarks, packing books before class is over, making noise, leaving class early, coming to class late, sleeping in class, prolonged chattering, reading other materials not relevant to this class, etc. If a student takes part in disruptive behavior, the instructor reserves the right to exclude the student immediately from the class meeting, and will be marked absent. So, Please turn off your cell phone anytime while you are in the class.
Additional Information

1. **ABSENCE for lectures:**
   It is your responsibility to attend class. You are responsible for those topics and examples discussed on the day of your absence. Furthermore, you are responsible for any important announcements or homework assignments given during the class you missed. Frequent absences can negatively affect your grade.

2. **ABSENCE ON TEST DAYS:**
   If you UNEXPECTEDLY MUST BE ABSENT ON AN EXAM DAY, notify the instructor AT LEAST ONE HOUR PRIOR TO that exam time. You can leave a voice message to me at 236-9283 or email at weiling@hawaii.edu. BE SURE TO STATE THE REASON for the absence. If no notification is received by the day of the exam or if the reason is not justifiable, then you will receive a zero “0” for that exam and no make-up will be allowed. If notification is received and the reason is justified then a make-up exam will be scheduled. You must take the make-up exam as soon as you make an arrangement with the instructor. The instructor has the right to request documentation of the student’s absence and determine if the reason for the absence is justifiable. ONLY ONE MAKE-UP EXAM may be granted to each student.

3. **HOMEWORK:**
   a) Before coming to a class, **Read** the sections to be covered and work on the problems in the lecture notes prior to that class, so you will get the most benefit from each lecture.

   b) After each class, **Read** the textbook, do the on-line assignment posted at www.pearsonmylabandmastering.com.
      - Step1: Do the media homework which is the pre-requisite of the homework of each section.
      - Step2: Do the homework of each section after you complete the media homework.

   c) There are deadlines set for media assignment and home-works individually. You must finish each assignment in a timely manner.

   d) Write step by step work of each problem in your notebook. You can appeal for points if you believe your work is right, but the MML marks you wrong. I will look at your work in your notebook to justify if you can earn some points back.

   e) You can check your progress/overall score frequently via MML.
4. Special Assignments & LATE HOMEWORK POLICY:
Special assignments will be distributed in class in a timely manner. Any item collected for grading purpose is due at the BEGINNING OF CLASS unless otherwise specified by the instructor. LATE homework may be accepted with grade penalty. However, you can use the Adobe Professional Acrobat to scan your homework as a PDF file and upload it to your folder in the drop box at Laulima site, then inform me by sending an email. I will check your folder and grade your homework this way. Or you can fax your work to me at (808) 247-5362 attention: Weiling Landers. You will earn some credit if it is submitted on-time.

5. GRADING ON HOMEWORK, QUIZZES, OR EXAMS:
To receive full credit for problems done on exams, quizzes, or special assignments, you must show sufficient work in a clear and organized manner. It helps me determine where your error is (hence, you might be able to obtain partial credit) and if you are logically applying the mathematical tools learned to solve the given problem. Your work must be neat and organized. "Messy" and/or disorganized work will not be accepted.

6. Supplemental Instruction sessions
Supplemental Instruction: This class is supported by the Supplemental Instruction (SI) program. SI is a FREE, collaborative, peer-study program that helps students succeed in difficult classes. Your SI Leader, (Daren Martin), is a peer who has taken this class (or a higher level class) previously and has an understanding of the course material. In SI sessions, students will work together with SI Leader to explore important concepts, review class notes, discuss reading assignments, and review for tests. All students in this class are encouraged to attend! Note: WCC data has shown that students who attend SI sessions are 20% more likely to receive A, B, or C grades than non-attendees and are less likely to withdraw from their courses. This data has also shown that the more sessions students attend, the more likely they are to pass.

7. Don’t Procrastinate
Mathematics is not a subject that you can consistently be successful in by “cramming” a day or two before the test. By “cramming” you don’t develop proficiency in doing the problems, knowledge of what to do on a particular problem and long-term understanding of the process. Also, if you procrastinate, you may fall so hopelessly behind that it becomes impossible to complete the course by the end of the semester. It requires constant work to keep on top of the course material.

Help: Your instructor and SI leader are your primary resource for help when you are lost. Seek help immediately if you have problems. Don’t wait too long!

Please read the syllabus carefully. If you have any suggestion, we can discuss it during the first week. We will follow this syllabus as a guideline from the second week on.
<table>
<thead>
<tr>
<th>MONDAY</th>
<th>WEDNESDAY</th>
<th>FRIDAY</th>
</tr>
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<tbody>
<tr>
<td>JAN 12</td>
<td>Syllabus, R.1 Real Numbers</td>
<td>JAN 14</td>
</tr>
<tr>
<td>JAN 19</td>
<td>Holiday</td>
<td>JAN 21</td>
</tr>
<tr>
<td>JAN 26</td>
<td>R.7, R.8 nth Roots; Rational Exponents</td>
<td>JAN 28</td>
</tr>
<tr>
<td>JAN 28</td>
<td>1.2 Quadratic Equations</td>
<td>JAN 30</td>
</tr>
<tr>
<td>FEB 2</td>
<td>1.7 Problem solving</td>
<td>FEB 4</td>
</tr>
<tr>
<td>FEB 9</td>
<td>1.5 Solving Inequalities</td>
<td>FEB 11</td>
</tr>
<tr>
<td>FEB 16</td>
<td>Holiday President Day</td>
<td>FEB 18</td>
</tr>
<tr>
<td>FEB 23</td>
<td>2.2 Graphs; Intercepts</td>
<td>FEB 25</td>
</tr>
<tr>
<td>MAR 2</td>
<td>2.3 Lines</td>
<td>MAR 4</td>
</tr>
<tr>
<td>MAR 9</td>
<td>2.5 Variation</td>
<td>MAR 11</td>
</tr>
<tr>
<td>MAR 16</td>
<td>4.1 Linear Functions and their Properties</td>
<td>MAR 18</td>
</tr>
<tr>
<td>MAR 23</td>
<td>Spring Recess</td>
<td>MAR 25</td>
</tr>
<tr>
<td>MAR 30</td>
<td>5.3 The Graph of a Rational Function</td>
<td>APR 1</td>
</tr>
<tr>
<td>APR 6</td>
<td>Review for Exam 3</td>
<td>APR 8</td>
</tr>
<tr>
<td>APR 13</td>
<td>6.4 Logarithmic Functions</td>
<td>APR 15</td>
</tr>
<tr>
<td>APR 20</td>
<td>8.1 Systems of Linear Equations</td>
<td>APR 22</td>
</tr>
<tr>
<td>APR 27</td>
<td>8.7 Systems of Inequalities</td>
<td>APR 29</td>
</tr>
<tr>
<td>MAY 4</td>
<td>Final Exam Review</td>
<td>MAY 6</td>
</tr>
<tr>
<td>MAY 11</td>
<td>MAY 13</td>
<td>Final Exam 11:30 – 1:30 pm</td>
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</tbody>
</table>

* Feb. 2, 2015: Last day of 50% refund
* March 31, 2015: Last day to withdraw or change to CR/NC option.
* May 6, 2015: Last Day of Instruction
MyLab & Mastering
Student Registration Instructions

To register for Math 103 CRN 63340 MWF 11:30 - 12:45 Spring 2015:
2. Under Register, click Student.
3. Enter your instructor’s course ID: landers44057, and click Continue.
4. Sign in with an existing Pearson account or create an account:
   - If you have used a Pearson website (for example, MyITLab, Mastering, MyMathLab, or MyPsychLab), enter your Pearson username and password. Click Sign in.
   - If you do not have a Pearson account, click Create. Write down your new Pearson username and password to help you remember them.
5. Select an option to access your instructor’s online course:
   - Use the access code that came with your textbook or that you purchased separately from the bookstore.
   - Buy access using a credit card or PayPal.
   - If available, get 14 days of temporary access. (Look for a link near the bottom of the page.)
6. Click Go To Your Course on the Confirmation page. Under MyLab & Mastering New Design on the left, click Math 103 CRN 63340 MWF 11:30 - 12:45 Spring 2015 to start your work.

Retaking or continuing a course?
If you are retaking this course or enrolling in another course with the same book, be sure to use your existing Pearson username and password. You will not need to pay again.

To sign in later:
2. Click Sign in.
3. Enter your Pearson account username and password. Click Sign in.
4. Under MyLab & Mastering New Design on the left, click Math 103 CRN 63340 MWF 11:30 - 12:45 Spring 2015 to start your work.

Additional Information
See Students > Get Started on the website for detailed instructions on registering with an access code, credit card, PayPal, or temporary access.